



## JP4338233A: ADSORBENT FOR NOX AND METHOD FOR REMOVING NOX BY USING THIS ADSORBENT

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IPC Class: B01J 020/08; B01D 053/36;

**Abstract:** **Purpose:** To obtain the adsorbent which has the excellent capacity to adsorb the NOx and more particularly nitrogen dioxide in exhaust gases and is not affected by the moisture in the exhaust gases by incorporating an alumina component and metal oxide components, such as manganese and nickel, into this adsorbent. **Constitution:** This adsorbent contains 30 to 99.5wt.%, more preferably 40 to 99wt.% alumina as the component and 70 to 0.5wt.%, more preferably 60 to 1wt.% metal oxides selected from the manganese, nickel, cobalt, and lanthanum as the components. The specific surface area is specified to =50cm<sup>2</sup>/g, more preferably =80m<sup>2</sup>/g and the pore volume to =0.3cc/g, more preferably =0.4cc/g. The resulted adsorbent has the excellent capacity to adsorb the NOx, and more particularly low-concn. nitrogen dioxide in the exhaust gases and removes these materials without being affected by the moisture in the exhaust gases.  
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Foreign References: none

(No patents reference this one)



Alternative



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